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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/545,834	04/10/2000	Shuhei Harada	Q58793	3167	
7590 11/30/2004 Sughrue Mion Zinn Macpeak & Seas 2100 Pennsylvania Avenue NW			EXAMINER		
			TRAN, LY T		
	OC 20037-3202		ART UNIT PAPER NUMBER		
-			2853		
			DATE MAILED: 11/30/2004	DATE MAILED: 11/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/545,834 HARADA ET AL.		-			
Office Action Summary	Examiner	Art Unit	· · · · · · · · · · · · · · · · · · ·			
	Ly T TRAN	2853	Pr			
The MAILING DATE of this communication ap	<b>′</b>	with the correspondence addr	ress			
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPL	VIS SET TO EXPIRE 3	MONTH(S) FROM				
THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replection of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by staturent and the period for reply will, by staturent period for reply will, by staturent period for reply will, so that the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may ply within the statutory minimum of t d will apply and will expire SIX (6) M te, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this com ABANDONED (35 U.S.C. § 133).	munication.			
Status						
1) Responsive to communication(s) filed on 30	<u>August 2004</u> .		•			
2a)⊠ This action is <b>FINAL</b> . 2b)□ Th	is action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-70 and 72-91</u> is/are pending in the	e application.	,				
4a) Of the above claim(s) <u>2,3,6-32,42-65 and</u>		om consideration.				
5) Claim(s) <u>1,4,5,31,33-41,66,69,70,72-74 and claim</u>	81-87 is/are allowed.					
6) Claim(s) 80 and 88-91 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	or election requirement					
are subject to restriction and	·					
Application Papers						
9) The specification is objected to by the Examir		<u>-</u>				
10) The drawing(s) filed on is/are: a) ac						
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	• • • • • • • • • • • • • • • • • • • •	, ,	2 1 121/d\			
11) The oath or declaration is objected to by the E	•	***	• •			
Priority under 35 U.S.C. § 119		0.440(.) (1) (0				
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer		. § 119(a)-(d) or (t).				
2. Certified copies of the priority documer		Application No.				
3. Copies of the certified copies of the pri		· · · — —	tage			
application from the International Bure			_			
* See the attached detailed Office action for a lis	st of the certified copies n	ot received.				
-		•				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔲 Intervie	w Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	lo(s)/Mail Date  of Informal Patent Application (PTO-	152\			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	6) Cther:		192)			

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#### **DETAILED ACTION**

**Note**: Under the remark filed 8/30/04, Applicant request for an initialed 1449 filed 6/25/02 and 5/10/04. The initialed 1449 filed 5/10/04 is attached. However, there was no 1449 form was filed in 6/25/02 in the file. Therefore, the Applicant should summit the form 1449 in order for the Examiner to consider and initial.

## Election/Restrictions

1. Applicant's election without traverse of species in Paper No. 11 is acknowledged.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 80, 88-91 are rejected under 35 U.S.C. 102(e) as being anticipate by Hoen et al (USPN 6,325,354).

With respect to claims 80 and 89-91, Hoen et al. discloses an ink jet recording comprising: an recording head/a first ink storage (Fig.1: element 15), an ink storage/a second ink storage (Fig.1: element 13) for storing ink to be supply to the recording

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head/a first ink storage (Element 15), an ink flow path passage (Element 17) communicating the ink storage unit and the recording head, a valve unit for opening/closing the ink flow path, the valve unit including a valve control chamber (Fig.4: element 111) which constitutes a part of the ink flow path, the valve control chamber including an entrance port (Fig.4: element 117) and an exit port (Fig.4: element 115), a flexible diaphragm (Fig.4: element 127) which constitutes a part of the valve control chamber and an actuator body (Element 125) fixed with the diaphragm, the actuator body being adapted to deform the diaphragm such that the only exit port is closed by the diaphragm and the actuation body closes the exit port when a negative pressure is applied to the valve control chamber (See figure 4).

With respect to claim 88, the actuation body (Fig.4: element 125) is a rod member arranged below the diaphragm (127).

## Allowable Subject Matter

3. Claims 1, 4, 5, 33-41,57, 66-70, 72-74 are 81-87 are allowed.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LT

November 18, 2004

Stephen D. Meier Primary Examiner